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**Method and system for the anatomic deconvolution of brain and heart electromagnetic activity.**

A method and system is described for the anatomic deconvolution of brain and heart electromagnetic activity including a set of bioelectromagnetic amplifiers, NMR or TAC images from the subject's head or torso, and a computer based system for the recording and processing of human electromagnetic-physiological signals. Signals recorded on the surface of the body (head or torso) are transformed, using the information provided by the anatomic images, to an infinite homogeneous volume conductor. Generator localization and display of magnitudes of interest are performed in this medium, which is the simplest from the physical point of view.

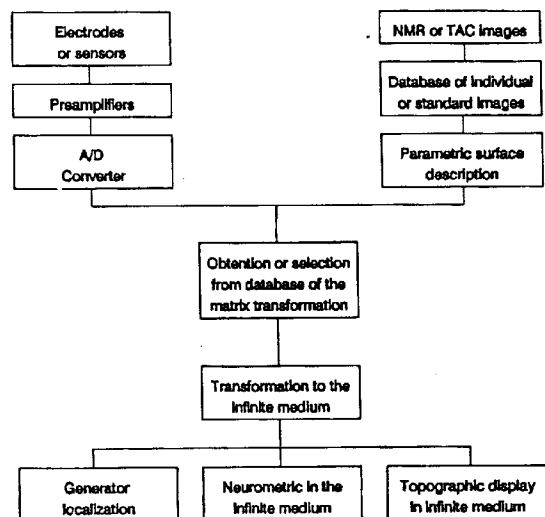


Fig. 1



European Patent Office

EUROPEAN SEARCH REPORT

Application Number

EP 92 40 0109

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X A	US-A-4 736 751 (A.S.GEVINS ET AL) * column 1, line 57 - column 3, line 16 * * column 3, line 60 - column 18, line 25; figures 1-12 *	1 2-7	A61B5/04 A61B5/05 A61B5/0476
A	--- I.E.E.E. TRANSACTIONS ON BIOMEDICAL ENGINEERING vol. BME34, no. 12, December 1987, NEW YORK, US, pages 913 - 920 J.W.H.MEIJS ET AL 'The EEG and MEG, Using a Model of Eccentric Spheres to Describe the Head' * page 913, left column, line 1 - right column, line 42; figure 1 *	1,7	
A	--- ELECTRO MEDICA, vol. 57, no. 1, January 1989, ERLANGEN, DE, pages 2 - 7 F.GUDDEN ET AL, 'Ein Vielkanalsystem zur Biomagnetischen Diagnostik in Neurologie und Kardiologie: Prinzip, Methode und erste Ergebnisse' * page 4, left column, line 52 - page 6, right column, line 21; figures 1-7 *	7	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			A61B G06F
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The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 27 NOVEMBER 1992	Examiner WEIHS J.
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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